

CURRENTLY PENDING CLAIMS

1. (Previously Presented) A TV phone in which a television and a portable cellular phone are integrally combined, the TV phone comprising:

first, second and third call alarm modes;

a TV module for receiving and demodulating a desired TV channel signal among radio-frequency electromagnetic signals received in response to an input of a tuning signal, when the TV module operates by supply of a power supply voltage, to generate a composite video signal, a composite synchronizing signal and a composite audio signal;

a Mobile Station Radio Frequency Unit (MRFU) for demodulating a signal indicative of an incoming call received through a forward channel, forming an audio conversion channel among the received radio-frequency electromagnetic signals to output the demodulated signal, and modulating and transmitting a signal in a reverse channel;

a TV control section for supplying the tuning signal corresponding to a channel selection command signal to the TV module, synchronizing On Screen Display (OSD) data corresponding to display control data and display data with the composite synchronizing signal to output the synchronized signal as a video signal;

a Mobile Station Processor (MSP) for establishing a phone or TV mode in response to an input command, generating the channel selection command signal stored in a predetermined memory area by setting the TV mode, and generating an alarm signaling a reception of the incoming call output from the MRFU according to at least one of the first, the second, and the third incoming call alarm modes,

wherein the first incoming call alarm mode comprises interrupting a power supply voltage supplied to the TV module and automatically switching from the TV mode to the phone mode, the second incoming call alarm mode comprises switching off and on, at a predetermined interval, the audio signal output from the TV module, and the third incoming call alarm mode comprises displaying one of an incoming call character message and a preset graphic message, at a specific region or an entire portion of the TV image viewing screen in accordance with controlling the TV control unit, and processing audio data output from the MRFU to output the processed audio data signal while supplying audio data to the MRFU; and

a display unit for synchronizing the composite video signal from the TV module and the video signal from the TV control section with the composite synchronizing signal and displaying the synchronized composite video signal and the video signal on an image viewing screen.

2. (Original) The TV phone recited in claim 1 further comprising a power switch disposed between the TV module and a power supply unit, the power switch being switched under the control of the MSP to turn on/off the TV module.

3. (Previously Presented) The TV phone recited in claim 1 further comprising an antenna for receiving or transmitting a radio-frequency, electromagnetic signal; and a Radio Frequency Switch (RFSW) disposed between the TV module and the MRFU, the RFSW allowing the antenna to be connected to both the TV module and the MRFU in response to the establishment of the TV mode of the MSP, and allowing the antenna to be connected to only the MRFU in response to the establishment of the phone mode of the MSP.

4-7. (Cancelled)

8. (New) A TV phone in which a television and a portable cellular phone are integrally combined, the TV phone comprising:

first, second, and third call alarm modes;

a TV module for receiving and demodulating a desired TV channel signal among radio-frequency electromagnetic signals received in response to an input of a tuning signal, when the TV module operates by supply of a power supply voltage, to generate a composite video signal, a composite synchronizing signal and a composite audio signal;

a Mobile Station Radio Frequency Unit (MRFU) for demodulating a signal indicative of an incoming call received through a forward channel, forming an audio conversion channel among the received radio-frequency electromagnetic signals to output the demodulated signal, and modulating and transmitting a signal in a reverse channel;

a TV control section for supplying the tuning signal corresponding to a channel selection command signal to the TV module, synchronizing On Screen Display (OSD) data corresponding to

display control data and display data with the composite synchronizing signal to output the synchronized signal as a video signal;

a Mobile Station Processor (MSP) for establishing a phone or TV mode in response to an input command, generating the channel selection command signal stored in a predetermined memory area by setting the TV mode, and generating an alarm signaling a reception of the incoming call output from the MRFU according to at least one of the first, the second, and the third incoming call alarm modes,

wherein the first incoming call alarm mode comprises interrupting a power supply voltage supplied to the TV module and automatically switching from the TV mode to the phone mode, the second incoming call alarm mode comprises switching off and on, at a predetermined interval, the audio signal output from the TV module, and the third incoming call alarm mode comprises displaying one of an incoming call character message and a preset graphic message, at a specific region or an entire portion of the TV image viewing screen in accordance with controlling the TV control unit, and processing audio data output from the MRFU to output the processed audio data signal while supplying audio data to the MRFU; and

a display unit for synchronizing the composite video signal from the TV module and the video signal from the TV control section with the composite synchronizing signal and displaying the synchronized composite video signal and the video signal on an image viewing screen,

wherein when the TV phone is set to text mode in the third incoming call alarm mode, text data in a flash memory is accessed and stored in a video memory and the text data stored in the video memory is outputted and displayed as the incoming call character message, and

wherein when the TV phone is not set to the text mode in the third incoming call alarm mode, graphic data in the flash memory is accessed and stored in the video memory and the graphic data stored in the video memory is outputted and displayed as the preset graphic message.

9. (New) The TV phone recited in claim 8, further comprising a power switch disposed between the TV module and a power supply unit, the power switch being switched under the control of the MSP to turn on/off the TV module.

10. (New) The TV phone recited in claim 1, further comprising:
an antenna for receiving or transmitting a radio-frequency, electromagnetic signal; and
a Radio Frequency Switch (RFSW) disposed between the TV module and the MFRU, the RFSW allowing the antenna to be connected to both the TV module and the MRFU in response to the establishment of the TV mode of the MSP, and allowing the antenna to be connected to only the MRFU in response to the establishment of the phone mode of the MSP.